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From:	Secretary-General of the European Commission, signed by Mr Jordi AYET PUIGARNAU, Director
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To:	Mr Jeppe TRANHOLM-MIKKELSEN, Secretary-General of the Council of the European Union

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Subject:	COMMISSION DELEGATED REGULATION (EU) No .../.. of 24.10.2016 supplementing Directive 2013/36/EU of the European Parliament and of the Council with regard to regulatory technical standards for benchmarking portfolio assessment standards and assessment sharing procedures

Delegations will find attached document C(2016) 6703 final.

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Brussels, 24.10.2016
C(2016) 6703 final

COMMISSION DELEGATED REGULATION (EU) No .../..

of 24.10.2016

**supplementing Directive 2013/36/EU of the European Parliament and of the Council
with regard to regulatory technical standards for benchmarking portfolio assessment
standards and assessment sharing procedures**

(Text with EEA relevance)

EXPLANATORY MEMORANDUM

1. CONTEXT OF THE DELEGATED ACT

Article 78(7) of Directive 2013/36/EU ('the Directive') empowers the Commission to adopt, following submission of draft standards by the European Banking Authority (EBA), and in accordance with Articles 10 to 14 of Regulation (EU) No 1093/2010, delegated acts specifying (i) the standards for the assessment to be conducted by competent authorities of institutions' internal approaches used for the calculation of own funds requirements, except for operational risk, as well as (ii) the procedures for sharing these assessments between the competent authorities and with the EBA.

In accordance with Article 10(1) of Regulation (EU) No 1093/2010 establishing the EBA, the Commission shall decide within three months of receipt of the draft standards whether to endorse the drafts submitted. The Commission may also endorse the draft standards in part only, or with amendments, where the Union's interests so require, having regard to the specific procedure laid down in those Articles.

2. CONSULTATIONS PRIOR TO THE ADOPTION OF THE ACT

In accordance with the third subparagraph of Article 10(1) of Regulation (EU) No 1093/2010, the EBA has carried out a public consultation on the draft technical standards submitted to the Commission in accordance with Article 78(7) of the Directive. A consultation paper was published on 28 May 2014, and the consultation closed on 19 August 2014. Moreover, the EBA invited the EBA's Banking Stakeholder Group set up in accordance with Article 37 of Regulation (EU) No 1093/2010 to provide advice on them. Together with the draft technical standards, the EBA has submitted an explanation on how the outcome of these consultations has been taken into account in the development of the final draft technical standards submitted to the Commission.

Together with the draft technical standards, and in accordance with the third subparagraph of Article 10(1) of Regulation No (EU) 1093/2010, the EBA has submitted its Impact Assessment, including its analysis of the costs and benefits, related to the draft technical standards submitted to the Commission. This analysis is available at <https://www.eba.europa.eu/regulation-and-policy/other-topics/regulatory-and-implementing-technical-standards-on-benchmarking-portfolios>, pages 39-53 of the Final Draft Regulatory Technical Standards package.

3. LEGAL ELEMENTS OF THE DELEGATED ACT

All the provisions in this delegated act relate to the specification of definition of the standards for the assessment to be conducted by competent authorities of institutions' internal approaches used for the calculation of own funds requirements, except for operational risk, and to the procedures for sharing these assessments between the competent authorities and with the EBA.

The assessments have to be conducted at least yearly, and shall be based on the results of the calculations of institutions' internal approaches for their exposures or positions that are included in benchmark portfolios which shall be specified by the EBA. Institutions shall

submit the results of their calculations, together with an explanation of the methodologies used to produce them, to the competent authorities at an appropriate frequency, and at least annually. The results shall be reported in accordance with the template developed by EBA.

The benchmark portfolios, templates, definitions and IT-solutions to be applied in the EU for the reporting are specified in an Implementing Technical Standard.

COMMISSION DELEGATED REGULATION (EU) No .../..

of 24.10.2016

supplementing Directive 2013/36/EU of the European Parliament and of the Council with regard to regulatory technical standards for benchmarking portfolio assessment standards and assessment sharing procedures

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013 on access to the activity of credit institutions and the prudential supervision of credit institutions and investment firms, amending Directive 2002/87/EC and repealing Directives 2006/48/EC and 2006/49/EC¹, and in particular the third subparagraph of Article 78(7) thereof,

Whereas:

- (1) It is necessary to lay down standards for the assessment by competent authorities of the internal approaches adopted by institutions' calculating own funds requirements and set out detailed rules in respect of the procedures for sharing of those assessments between competent authorities empowered to monitor the range of risk-weighted exposure amounts or own funds requirements by institutions permitted to use internal approaches for the calculation of those amounts or own fund requirements.
- (2) The assessment of the quality of advanced approaches of institutions allows for the comparison of internal approaches at the Union level, whereby the European Banking Authority (EBA) assists competent authorities with their assessment of potential underestimation of own funds requirements. The rules on the procedures for sharing assessments should contain appropriate provisions on the timing of the sharing of the assessments with the relevant competent authorities and EBA.
- (3) Competent authorities responsible for the supervision of institutions belonging to a group subject to consolidated supervision have a legitimate interest in the quality of internal approaches used by those institutions, as they contribute to the joint decision of the approval of the internal approaches in the first place, by virtue of Article 20 of Regulation (EU) No 575/2013 of the European Parliament and of the Council². Rules

¹ OJ L 176, 27.6.2013, p.338.

² Regulation (EU) No 575/2013 of the European Parliament and of the Council of 26 June 2013 on prudential requirements for credit institutions and investment firms and amending Regulation (EU) No 648/2012 (OJ L 176, 27.6.2013, p. 1).

on the procedures for sharing assessments made in accordance with Article 78(3) of Directive 2013/36/EU should also specify how the general cooperation and information sharing obligations within colleges apply in the particular context of the benchmarking exercise.

- (4) In order to ensure that the assessments made in accordance with Article 78(3) of Directive 2013/36/EU are shared in an efficient and practicable manner, competent authorities should make known their estimate or views on the level of potential underestimation of own fund requirements stemming from the internal approaches used by the institutions and the reasoning behind the conclusions of the competent authorities' assessment. In addition, actual or envisaged corrective actions by competent authorities in accordance with Article 78(4) of that Directive are also relevant for all other competent authorities responsible for the supervision of institutions belonging to a group subject to consolidated supervision as they have a legitimate interest in the continuous quality of an internal approach used by those institutions. Furthermore, actual or envisaged corrective actions by competent authorities should also be made known to EBA in accordance with Article 107(1) of that Directive, as they are necessary for EBA to carry out its tasks.
- (5) The EBA report produced to assist competent authorities in their assessment of the quality of the internal approaches is a cornerstone of the benchmarking exercise, given that such report contains the results of the comparison of relevant institutions with their peers at the Union level. Therefore, the information contained in the EBA report should constitute the basis on which competent authorities decide which firms and portfolios should be assessed with 'particular attention' as required by the first subparagraph of Article 78(3) of Directive 2013/36/EU.
- (6) The results of the assessment of the quality of internal approaches depend on the quality of the data reported by relevant institutions under Implementing Regulation (EU) No xx/xx³ [OP please insert number of ITS on benchmarking and complete the text in footnote 3 accordingly], which also need to be consistent and comparable. Therefore, competent authorities should be required to confirm the correct application of that Implementing Regulation by institutions, especially with regard to the application of the option available to institutions to refrain from reporting of certain individual portfolios.
- (7) Where competent authorities compute benchmarks based on the standardised approach, an adjustment should be made to the own fund requirements for credit risk that result from the application of the standardised approach, for reasons of prudence. This adjustment should be established at the level applied for the computation of the transitional Basel I floor based on Article 500 of Regulation (EU) No 575/2013.
- (8) Benchmarks based on the standardised approach are not currently considered appropriate to be computed in the case of market risk, as they can lead to distortions. Due to major methodological differences in the computation of own funds requirements according to the standardised and internal approaches, mainly due to sharp differences in aggregation or diversification of individual positions, a

³ Commission Implementing Regulation (EU) .../... of XXX laying down implementing technical standards for templates, definitions and IT-solutions to be used by institutions when reporting to the European Banking Authority and to competent authorities in accordance with Article 78(2) of Directive 2013/36/EU of the European Parliament and of the Council (OJ L...)

comparison between the two metrics under market risk for small portfolios would not provide a meaningful indication of potential underestimation of own funds requirements. Where standardised approach computations are considered in the assessment of credit risk models, their use should be only intended as benchmarks for assessment, rather than as floors.

- (9) When assessing the overall quality of institutions' internal approaches and the degree of variability observed in particular approaches, competent authorities should not focus solely on the outcomes but should aim at determining the key variability drivers and at extracting conclusions in the different modelling approaches. Competent authorities should therefore be required to take into account the results of the alternative value-at-risk (VaR) and stressed value-at-risk (sVaR) calculations based on the profit-and-loss time-series.
- (10) Given that the role of the competent authorities in investigating and confirming the quality of internal approaches is fundamental, in addition to the information reported by institutions in accordance with Implementing Regulation (EU) No xx/xxx [OP please insert number of ITS on benchmarking], competent authorities should use the powers they have under Regulation (EU) No 575/2013 for approving and reviewing internal approaches, in a proactive manner, by seeking any further information that will be useful for their on-going assessment of the quality of internal approaches.
- (11) For the assessment of market risk, back-testing, based both on hypothetical and actual changes in a portfolio's value, is already required to be conducted on a daily basis for the end-of-day positions of the whole portfolio, as set out in Article 366(3) of Regulation (EU) No 575/2013. The number of over-shootings has to be communicated to competent authorities and is regularly used to assess model performance and to determine add-on factors to the regulatory VaR and sVaR multipliers. Accordingly, no additional back-testing should be applied or assessed for the portfolios relating to market risk internal approaches.
- (12) The fact that the outcome of the benchmarking exercise for an individual portfolio is an extreme value or is identified in the EBA report as to be reviewed by competent authorities should not necessarily imply that the model used by the institution is incorrect or wrong. In this regard the assessments conducted by competent authorities should be used as a tool to get a more in-depth knowledge of institutions' models and modelling assumptions. In addition, the analysis of the potential differences between the own funds requirements for credit risk as reported by the institutions under Implementing Regulation No xx/xxx [OP please insert number of ITS on benchmarking], and the own funds requirements for credit risk that result from the use of historically observed risk parameters ('outturns') should be used by competent authorities as a proxy indicator of significant and systematic underestimation of own funds requirements, but should never substitute proper validation of the internal approach.
- (13) In using the benchmarking results, competent authorities should consider possible data limitations and reflect this in their assessment as deemed appropriate. Additional metrics based on outturns should be calculated by EBA based on the information collected and will further contribute to the analysis. Similarly, given that own funds requirements produced by market risk models are portfolio-dependent and any conclusions obtained at disaggregated levels cannot be uncritically extrapolated to real

portfolios held by institutions, any preliminary conclusions based solely on the total levels of capital derived from the aggregated portfolios should be considered with due caution. When assessing the results obtained, competent authorities should consider that even the aggregated portfolios comprising the largest number of instruments will still be very different from a real portfolio in terms of size and structure. In addition, since most institutions will not be able to model all non-aggregated portfolios, the results might not be comparable in all cases. Furthermore, it should be borne in mind that the data will not be reflecting all actions on own funds, such as constraints on diversification benefits or own funds add-ons introduced to address known modelling flaws or missing risk factors.

- (14) This Regulation is based on the draft regulatory technical standards submitted by the European Banking Authority to the Commission.
- (15) The European Banking Authority has conducted open public consultations on the draft regulatory technical standards on which this Regulation is based, analysed the potential related costs and benefits and requested the opinion of the Banking Stakeholder Group established in accordance with Article 37 of Regulation (EU) No 1093/2010 of the European Parliament and of the Council⁴,

HAS ADOPTED THIS REGULATION:

Article 1
Procedures for sharing assessments

1. Competent authorities carrying out annual assessments of the quality of the internal approaches of institutions in accordance with Article 78(3) of Directive 2013/36/EU shall share those assessments with all other relevant competent authorities and the European Banking Authority (EBA) within three months after the circulation of the report produced by EBA referred to in the second subparagraph of Article 78(3) of that Directive.
2. Upon receipt of the assessments referred to in paragraph 1, EBA shall share them with the relevant competent authorities responsible for the supervision of institutions belonging to a group subject to consolidated supervision where the competent authorities that prepared those assessments have not already done so.

Article 2
Procedures for sharing information with other competent authorities and EBA

When sharing assessments made in accordance with Article 78(3) of Directive 2013/36/EU, competent authorities shall provide the following information:

- (a) the conclusions and rationale of their assessment, based on the application of the assessment standards referred to in Articles 3 to 11;

⁴ Regulation (EU) No 1093/2010 of the European Parliament and of the Council of 24 November 2010 establishing a European Supervisory Authority (European Banking Authority), amending Decision No 716/2009/EC and repealing Commission Decision 2009/78/EC (OJ L 331, 15.12.2010, p. 12).

- (b) their views on the level of potential underestimation of own fund requirements stemming from the internal approaches used by institutions.

Article 3
Overview

1. When carrying out the assessment referred to in the first subparagraph of Article 78(3) or Directive 2013/36/EU, competent authorities shall identify the internal approaches that need specific assessment in a manner which is proportionate to the nature, scale and complexity of the risks inherent in the business model as well as the relevance of the portfolios included in Implementing Regulation No xx/xxx [OP please insert number of ITS on benchmarking] for the institution in relation to the risk profile of the institution. They shall also take into account the analysis provided in the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU as follows:
- (a) they shall treat values resulting from modelling which are considered as extreme in the EBA report as an indication of significant differences in own funds requirements in accordance with the first subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (b) they shall treat values resulting from modelling and the standard deviation of those values for exposures in the same benchmark portfolio or similar benchmarking portfolios identified in the EBA report as a preliminary indication of significant differences and low or high diversity, as applicable, in own funds requirements in accordance with the first subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (c) they shall treat potential differences computed in accordance with Article 4 of this Regulation as a preliminary indication of significant and systematic underestimation of own funds requirements in accordance with the first subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (d) they shall treat potential differences between estimated risk parameters reported by the institutions under Implementing Regulation No xx/xxx [OP please insert number of ITS on benchmarking] and the historically observed risk parameters ('outturns') reported by the institutions in accordance with that Implementing Regulation as a preliminary indication of significant differences in own funds requirements in accordance with the first subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (e) they shall treat potential differences between the own funds requirements for credit risk as reported by the institutions under Implementing Regulation xx/xxx [ITS] and the own funds requirements for credit risk that result from the use of outturns by the institutions in accordance with that Implementing Regulation or computed by EBA in its report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU as a preliminary indication of significant and systematic underestimation of own funds requirements in accordance with the first subparagraph of Article 78(3) of that Directive. When using the report provided by EBA, competent authorities may

take into account possible data limitations and reflect this in their assessment as deemed appropriate.

2. When carrying out the assessment referred to in paragraph 1 of this Article, competent authorities shall apply the assessment standards referred to in Articles 6 to 11.

Article 4

Computation of potential differences for credit risk using the Standardised Approach

1. Competent authorities shall compute the potential differences referred to in point (c) of Article 3(1) by subtracting the own funds requirements for credit risk as reported by the institutions under Implementing Regulation No *xx/xxx* [OP please insert number of ITS on benchmarking] from the own funds requirements for credit risk that result from the application of the standardised approach. In addition, they shall calculate the benchmark statistics regarding those differences as follows:
 - (a) for low default portfolios (LDPs), at the portfolio level excluding the exposures to Member States' central government and central banks denominated and funded in the domestic currency as referred to in Article 114(4) of Regulation (EU) No *575/2013*;
 - (b) for high default portfolios (HDPs), at the portfolio level.
2. For the computation of benchmark statistics referred to in paragraph 1 of this Article, competent authorities shall use the own funds requirements for credit risk adjusted at the level applied for the computation of the transitional Basel I floor based on Article 500 of Regulation (EU) No *575/2013*.

Article 5

Computation of potential differences for credit risk using outturns

For the purposes of point (d) and (e) of Article 3(1), competent authorities shall use both one-year and five-year average outturns for computing the differences.

Article 6

Assessment standards

1. When carrying out the assessment referred to in Article 3(1) of this Regulation, competent authorities shall assess the compliance of institutions with the requirements of Implementing Regulation No *xx/xxx* [OP please insert number of ITS on benchmarking], where institutions have exercised the option of Article 3(2) of that Implementing Regulation in order to submit more limited reporting under that Implementing Regulation. Competent authorities shall do so by confirming the rationale and justification behind any limitations in the reporting that these institutions have provided under that Implementing Regulation.
2. When carrying out the assessment referred to in Article 3(1), competent authorities shall investigate the reasons for the significant and systematic underestimation and

for the high or low diversity in the own funds requirements referred to in that paragraph, as follows:

- (a) for assessments relating to credit risk approaches, by applying the standards referred to in Articles 7 and 8;
- (b) for assessments relating to market risk approaches, by applying the standards referred to in Articles 9 to 11.

Article 7

General assessment standards for internal approaches for credit risk

1. When carrying out an assessment referred to in Article 3(1) relating to credit risk approaches, competent authorities shall use at least the information on the internal approaches applied to the supervisory benchmarking portfolios which is contained in the following documents, where relevant:
 - (a) the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (b) the institution's regular validation reports;
 - (c) model documentation including manuals, documentation on the development and calibration of the model and methodology for the internal approaches;
 - (d) reports regarding on-site visits.
2. When carrying out an assessment referred to in Article 3(1) relating to credit risk approaches, competent authorities shall take into account the following elements, where relevant:
 - (a) whether the institution uses own estimates of loss given default (LGD) and conversion factors in accordance with Article 143 of Regulation (EU) No 575/2013;
 - (b) the model's application perimeter and the representativeness of the benchmarking portfolios;
 - (c) key characteristics of the models such as distinguishing between models designed and calibrated at the centralised group level (global) and models designed and calibrated only at the level of the host jurisdiction (local), vendor and institution models, models developed and calibrated using internal data and models developed and calibrated using external data;
 - (d) the date of model approval and the date of model development;
 - (e) the comparison of predicted and observed default rates over a relevant time period;
 - (f) the comparison of predicted downturn LGDs with observed LGDs;
 - (g) the comparison of estimated and observed exposures at default;

- (h) the length of the time series used and, as applicable, the inclusion of distressed years or nature and materiality of any adjustment for capturing downturn conditions and adding margins of conservatism in the models' calibration;
 - (i) recent changes in the composition of the portfolio of the institution to which the internal approach is applied;
 - (j) the micro- and macroeconomic situation of the institution's portfolio, the risk and business strategy as well as internal process, such as recovery procedures for defaulted assets ('workout procedures');
 - (k) the current position in the cycle, choice of rating philosophy between point-in time (PIT) or through-the-cycle (TTC) and the observed cyclicity in the model;
 - (l) the number of rating grades and dimensions used by the institutions in the probability of default (PD), LGD and conversion factor models;
 - (m) the default and cure rates definitions used by the institution;
 - (n) the inclusion or not of open workout procedures in the time series used for the calibration of the LGD models, where applicable.
3. Where competent authorities deem that the information referred to in paragraph 1 is not sufficient in order to reach conclusions in relation to the elements listed in paragraph 2, they shall promptly collect from the institutions additional information they deem necessary in order to finalise their assessment.

When deciding on what additional information to collect, competent authorities shall consider the materiality and relevance of the deviation of the institution's parameters and own funds requirements. Competent authorities shall collect the additional information in the way they deem to be most appropriate, including through questionnaires, interviews and ad hoc on-site visits.

Article 8

Assessment standards for internal approaches for credit risk specific to the LDP

1. When carrying out an assessment referred to in Article 3(1) relating to the LDP counterparties set out in template 101 of Annex I of Implementing Regulation *xx/xxx* [OP please insert number of ITS on benchmarking], competent authorities shall assess whether the differences between the own funds requirements for credit risk of an institution and those of its peers are driven by any of the following:
- (a) different rank ordering of the counterparties included in the LDP samples or different PD levels assigned to each grade;
 - (b) specific facility types, collateral instruments or location of the counterparties;
 - (c) heterogeneity in the PDs, LGDs, maturities or conversion factors;
 - (d) collateralisation practices;

- (e) level of independency from external ratings assessment and frequency in the internal rating update.
2. Where an institution classifies a counterparty as ‘defaulted’ while other institutions classify it as ‘performing’, or vice versa, competent authorities shall apply the approach referred to in paragraph 1 to that counterparty.

Article 9

General assessment standards for internal approaches for market risk

1. When carrying out an assessment referred to in Article 3(1), competent authorities shall use at least the information on the internal approaches applied to the supervisory benchmarking portfolios which is contained in the following documents, where relevant:
- (a) the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU;
 - (b) the institution's validation reports, conducted by qualified independent parties, when the internal model is initially developed and when any significant changes are made to the internal model. This information shall include tests to demonstrate that any assumptions made within the internal approaches are appropriate and do not underestimate or overestimate the risk, specific back-testing designed in relation to the risks and structures of their portfolios and use of hypothetical portfolios to ensure that the internal approaches are able to account for particular structural features that may arise, such as material basis risks and concentration risk;
 - (c) notifications of the number and justification of daily back-testing overshootings, observed over the previous year, on the basis of back-testing on hypothetical and actual changes in the portfolio's value;
 - (d) model documentation including manuals, documentation on the development and calibration of the model and methodology for the internal approaches;
 - (e) reports regarding on-site visits.
2. When carrying out an assessment referred to in Article 3(1), competent authorities shall take into account the following elements, where relevant:
- (a) the choice of the VaR methodology applied by the institution;
 - (b) the model's application perimeter and the representativeness of the benchmarking portfolios;
 - (c) the justification and rationale in case a risk factor is incorporated into the institution's pricing model but not into the risk-measurement model;
 - (d) the set of risk factors incorporated corresponding to the interest rates in each currency in which the institution has interest rate sensitive on- or off-balance sheet positions;

- (e) the number of maturity segments in which each yield curve is divided;
- (f) the methodology applied to capture the risk of less than perfectly correlated movements between different yield curves;
- (g) the set of risk factors modelled corresponding to gold and to the individual foreign currencies in which the institution's positions are denominated;
- (h) the number of risk factors used to capture equity risk;
- (i) the methodology applied to assess the risk arising from less liquid positions and positions with limited price transparency under realistic market scenarios;
- (j) the track record of the proxies used in the model, assessment of their impact on the risk metrics;
- (k) the length of the time series used for VaR;
- (l) the methodology applied for determining the stressed period for sVaR, adequacy of the stressed period selected for the benchmarking portfolios;
- (m) the methodologies applied in the risk-measurement model to capture nonlinearities for options, in particular where the institution uses Taylor-approximation approaches instead of full revaluation, and other products as well as to capture correlation risk and basis risk;
- (n) the methodologies applied to capture name-related basis risk and whether they are sensitive to material idiosyncratic differences between similar but not identical positions;
- (o) the methodologies applied to capture event risk;
- (p) for internal incremental default and migration risk (IRC), the methodologies applied to determine liquidity horizons by position, as well as the PDs, LGDs and transition matrices used in the simulation referred to in Article 374 of Regulation (EU) No 575/2013;
- (q) for the internal approach for correlation trading, the methodologies applied to capture risks laid down in Article 377(3) of Regulation (EU) No 575/2013, as well as the correlation assumptions between the relevant modelled risk factors.

3. Where competent authorities deem that the information referred to in paragraph 1 is not sufficient in order to reach conclusions in relation to the elements listed in paragraph 2, they shall promptly collect from the institutions additional information they deem necessary in order to finalise their assessment.

When deciding on what additional information to collect, competent authorities shall consider the materiality and relevance of the deviation of the institution's parameters and own funds requirements. Competent authorities shall collect the additional information in the way they deem to be most appropriate, including through questionnaires, interviews and ad hoc on-site visits.

Article 10

Assessment of differences in the outcomes of internal approaches for market risk

1. When carrying out an assessment referred to in Article 3(1) relating to market risk approaches, competent authorities shall apply the standards set out in paragraphs 2 to 8 of this Article.
2. When assessing the causes of the differences for VaR values, competent authorities shall consider both of the following:
 - (a) any alternative homogenised VaR calculations that EBA may provide in its report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU, using available profit-and-loss data;
 - (b) the dispersion observed in the VaR metric provided by institutions under Implementing Regulation *xx/xxx* [OP please insert number of ITS on benchmarking].
3. For institutions using historical simulation, competent authorities shall assess the variability observed both in the alternative homogenised VaR calculations and in the VaR data reported by institutions referred to in paragraph 2, in order to determine the effect of the different options applied by those institutions within the historical simulation.
4. Competent authorities shall assess the dispersion among institutions in relation to particular risk factors included in each one of the non-aggregated benchmark portfolios using the observed volatility and the observed correlation in the profit-and-loss vector provided by institutions applying historical simulation for non-aggregated portfolios.
5. Competent authorities shall analyse VaR models of an institution for portfolios which might show a profit-and-loss time-series that significantly diverges from the profit-and-loss time-series of the institution's peers, as identified in the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU, even where the final own funds requirement for that particular portfolio is similar to the one provided by the institution's peers in absolute terms.
6. In addition, for VaR, sVaR, IRC and models used for correlation trading activities, competent authorities shall assess the effect of regulatory variability drivers using the data provided by the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU by clustering the metric outcomes by the different modelling options.
7. Once the causes of variability stemming from the different regulatory options have been assessed, competent authorities shall assess whether the remaining variability and underestimation of own funds requirements is driven by one or more of the following:
 - (a) misunderstandings regarding the positions or risk factors involved;
 - (b) incomplete model implementation;

- (c) missing risk factors;
 - (d) differences in calibration or data series used in modelling simulation;
 - (e) additional risk factors incorporated in the model;
 - (f) alternative model assumptions applied;
 - (g) differences attributable to the methodology applied by the institution.
8. Competent authorities shall carry out a comparison between the outcomes obtained from portfolios, which only differ in a specific risk factor, to determine whether institutions have incorporated such a risk factor into their internal models consistently with their peer institutions.

Article 11

Assessment of the level of own funds for internal approaches for market risk

1. Where assessing the level of own funds of each institution, competent authorities shall take into account both of the following:
 - (a) the level of own funds by non-aggregated portfolio;
 - (b) the effect of the diversification benefit applied by each institution in aggregated portfolios, by comparing the sum of own funds of the non-aggregated portfolios referred to in point (a) of this paragraph with the level of own funds provided for the aggregated portfolio, as provided in the EBA report referred to in the second subparagraph of Article 78(3) of Directive 2013/36/EU.
2. Where assessing the level of own funds by institution, competent authorities shall also take into account both of the following:
 - (a) the effect of the supervisory add-ons;
 - (b) the effect of the supervisory actions not contemplated in the data collected by EBA.

Article 12

Entry into force

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 24.10.2016

*For the Commission
The President
Jean-Claude JUNCKER*